

DEC. 17. 2001

2:02PM

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DEC 18 2001

NO. 531

P. 1/8

OFFICIAL

GROUP 1600

Atty Docket No. 015389-002616US

PTO FAX NO.: 703-872-9306

ATTENTION: Examiner
TELEPHONE NO.: 703-872-9305

Group Art Unit 1651

**OFFICIAL COMMUNICATION
FOR THE PERSONAL ATTENTION OF
EXAMINER**

CERTIFICATION OF FACSIMILE TRANSMISSION

I hereby certify that the following document(s) in re Application of Thomas R. Cech et al., Application No. 09/721,506, filed November 22, 2000 for HUMAN TELOMERASE CATALYTIC SUBUNIT is being facsimile transmitted to the Patent and Trademark Office on the date shown below.

Document(s) Attached

1. Fee Transmittal
2. Preliminary Amendment

Number of pages being transmitted, including this page: 8

Dated: December 17, 2001


Kathy Johnston

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PTO/SB/17 (01-00)

Approved for use through 10/31/2002. OMB 0851-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**FEE TRANSMITTAL
for FY 2001**

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$) 216**Complete if Known**

Application Number	09/721,506
Filing Date	November 22, 2000
First Named Inventor	Cach et al.
Examiner Name	Not yet assigned
Group Art Unit	1651
Attorney Docket No.	015389-002616US

METHOD OF PAYMENT

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:

Deposit
Account
Number

20-1430

Deposit
Account
Name

Townsend and Townsend and Crow LLP

- ☒ Charge Any Additional Fee Required
Under 37 CFR 1.16 and 1.17
☐ Applicant claims small entity status.
See 37 CFR 1.27

2. ☐ Payment Enclosed:

☐ Check ☐ Credit card ☐ Money Order ☐ Other

FEE CALCULATION**1. BASIC FILING FEE**

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	
108	330	208	165	Design filing fee	
107	310	207	255	Plant filing fee	
106	740	206	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	

SUBTOTAL (1)

(\$)

2. EXTRA CLAIM FEES

Total Claims	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
32	20**		12	Extra Claims	12
3	3**			Independent Claims	
				Multiple Dependent	

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
103	18	203	9	Claims in excess of 20	
102	84	202	42	Independent claims in excess of 3	
104	280	204	140	Multiple dependent claim, if not paid	
108	64	208	42	** Reissue independent claims over original patent	
110	18	210	9	** Reissue claims in excess of 20 and over original patent	

SUBTOTAL (2)

(\$)

216

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,940*	113	1,940*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	620	217	480	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
118	320	218	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
139	1,510	139	1,510	Petition to Institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,290	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Petitions related to provisional applications	
126	180	126	180	Submission of Information Disclosure Sheet	
591	40	591	40	Recording each patent assignment per property (times number of properties)	
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify)

The Commissioner is authorized to charge any additional fees to the above noted Deposit Account.

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$)

SUBMITTED BY

Name (Print/Type)

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Registration No. (Attorney/Agent)

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Signature

Date

December 17, 2001

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PATENT
015389-002616U3
018/2100

#8/B
DmJ
2-14-02
(NB)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Thomas R. Cech et al.

Application No.: 09/721,506

Filed: November 22, 2000

For: HUMAN TELOMERASE
CATALYTIC SUBUNIT

Art Unit: 1651

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination of the above-referenced application, please enter the following amendments and remarks.

IN THE CLAIMS

Please cancel claims 1-20 without prejudice to subsequent renewal or future prosecution.

Please add new claims 21-52 as follows.

-- 21. A synthetic or recombinant telomerase reverse transcriptase protein, or variant thereof, or a fragment thereof, wherein the protein, variant or fragment contains a sequence that is at least 80% identical to SEQ. ID NO:2, and has telomerase catalytic activity when complexed with a telomerase RNA.

22. A composition comprising the protein, variant or fragment of claim 21, and further comprising an RNA, wherein the protein, variant or fragment and the RNA form a telomerase ribonucleic acid complex.